	Application No.	Applicant(s)	
	10/786,303	LEE ET AL.	
Notice of Allowability	Examin r	Art Unit	<u></u>
	son t dinh	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31	S (OR REMAINS) CLOSED i i) or other appropriate comm RIGHTS. This application is	n this application. If not included unication will be mailed in due cours	
1. This communication is responsive to			
2. 🗵 The allowed claim(s) is/are <u>1-27</u> .			
3. 🛮 The drawings filed on 26 February 2004 are accepted by	the Examiner.		
<ul> <li>4.  Acknowledgment is made of a claim for foreign priority to a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).</li> <li>* Certified copies not received:</li> </ul>	re been received. re been received in Application	on No	om the
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDONI THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		e a reply complying with the requiren	nents
5. A SUBSTITUTE OATH OR DECLARATION must be subr INFORMAL PATENT APPLICATION (PTO-152) which give			E OF
6. CORRECTED DRAWINGS ( as "replacement sheets") mu  (a) including changes required by the Notice of Draftsper  1) hereto or 2) to Paper No./Mail Date  (b) including changes required by the attached Examiner  Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	rson's Patent Drawing Revie r's Amendment / Comment o  1.84(c)) should be written on t	r in the Office action of he drawings in the front (not the back)	) of
<ol> <li>DEPOSIT OF and/or INFORMATION about the deposit attached Examiner's comment regarding REQUIREMENT</li> </ol>			he
Attachm nt(s)  1. ☑ Notice of References Cited (PTO-892)  2. ☑ Notice of Draftperson's Patent Drawing Review (PTO-948)  3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date  4. ☑ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview S Paper No. 708), 7. ☐ Examiner's	•	,
		Son T. Dinh Primary Examinar	

Application/Control Number: 10/786,303

Art Unit: 2824

## **REASONS FOR ALLOWANCES**

The following is an examiner's statement of reasons for allowance:

The prior art of record fail to disclose a phase change memory cell array comprising a plurality of word lines, a plurality of bit lines, a plurality of memory cells arranged at the intersection regions of the word lines and bit lines, each memory cells comprising a cell transistor having a gate connected to a corresponding word line, a resistor and a phase change cell connected in series between a drain of the cell transistor and a corresponding bit line, and a plurality of auxiliary transistor respectively connected between the drains of the cell transistor of adjacent the memory cells (claims 1, 7, 12) and a plurality of vertical gates respectively connected at one end between the word lines of a respective word lines pair and in a same layer as the respective word line pair (claim 21).

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Son Dinh whose telephone number is 571-272-1868. The examiner can normally be reached on 8am-5pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms can be reached on 571-272-1869. The fax phone number for the organization where this application or proceeding is assigned is 571-273-1868.

Application/Control Number: 10/786,303 Page 3

Art Unit: 2824

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

S. Dinh June 26, 2004

Son T. Dinh Primary Examiner